

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.02090101	Serial No.: 10/620,183
	Applicants: SCHMIDT et al.	Confirmation No.: 8654
	Application Filing Date: July 15, 2003	Group: 1764
	Information Disclosure Statement mailed: 12/10/03	



U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
DB	3,900,646	08/19/75	Clyde			
	3,957,685	05/18/76	Heide et al.			
	3,998,758	12/21/76	Clyde			
	4,088,607	05/09/78	Weidenbach et al.			
	4,251,239	02/17/81	Clyde et al.			
	4,253,302	03/03/81	Asano et al.			
	4,308,233	12/29/81	Narumiya et al.			
	4,568,595	02/04/86	Morris			
	4,810,685	03/07/89	Twigg et al.			
	4,863,712	09/05/89	Twigg et al.			
	4,940,826	07/10/90	Font Freide et al.			
	5,105,052	04/14/92	Font Freide et al.			
	5,221,464	06/22/93	Durante et al.			
	5,382,741	01/17/95	Astbury et al.			
	5,500,149	03/19/96	Green et al.			
	5,593,935	01/14/97	Golunski et al.			
	5,597,771	01/28/97	Hu et al.			
	5,639,929	06/17/97	Bharadwaj et al.			
	5,648,582	07/15/97	Schmidt et al.			
	5,654,491	08/05/97	Goetsch et al.			
	5,856,585	01/05/99	Sanfilippo et al.			
	5,905,180	05/18/99	Yokoyama et al.			
↓	5,980,731	11/09/99	Kao et al.			

EXAMINER

Jn Suk Bullock

Date Considered

June 22, 2006

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>JB</i>	6,072,097	06/06/00	Yokoyama et al.			
	6,083,425	07/04/00	Clawson et al.			
	6,123,913	09/26/00	Clawson et al.			
	6,126,908	10/03/00	Clawson et al.			
	6,197,717 B1	03/06/01	Alexander et al.			
	6,207,122 B1	03/27/01	Clawson et al.			
	6,221,280 B1	04/24/01	Anumakonda et al.			
	6,245,303 B1	06/12/01	Bentley et al.			
	6,254,807 B1	07/03/01	Schmidt et al.			
	6,254,839 B1	07/03/01	Clawson et al.			
	6,387,554 B1	05/14/02	Verykios			
	6,407,301 B1	06/18/02	Foley et al.			
	6,444,867 B1	09/03/02	Samsel et al.			
	6,452,061 B1	09/17/02	Schmidt et al.			
✓	6,605,376 B2	08/12/03	Verykios			
<i>JB</i>	US 2001/0009653 A1	07/26/01	Clawson et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>JB</i>	0576096 A2	12/29/93	EP				
<i>JB</i>	0640559 A1	03/01/95	EP				
<i>JB</i>	1,067,957	05/10/67	GB				
<i>JB</i>	FR 1,379,027	11/20/64	FR (abstract only)				
<i>JB</i>	JP 2001-080904	03/27/01	JP (English language abstract included)				

EXAMINER <i>John S. Bullock</i>	Date Considered <i>June 22, 2006</i>
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INFORMATION DISCLOSURE STATEMENT <i>O</i> <i>JSCB</i> <i>DEC 12 2003</i>	Atty. Docket No.: 110.02090101	Serial No.: 10/620,183
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	JP 2001-089108	04/03/01	JP (English language abstract included)				
	WO 98/08771	03/05/98	WIPO				
	WO 99/61369	12/02/99	WIPO				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
	Aupretre et al., "Le vaporeformage catalytique: Application a la production embarquee d'hydrogene a partir d'hydrocarbures ou d'alcools," <i>Ann. Chim. Sci. Mat.</i> , 2001, 26(4):93-106 (with English language abstract).
	Bodke et al., "The Effect of Ceramic Supports on Partial Oxidation of Hydrocarbons Over Noble Metal Coated Monoliths," <i>Journal of Catalysis</i> , 1998; 179:138-149.
	Bodke et al., "High Selectivities to Ethylene by Partial Oxidation of Ethane," <i>Science</i> , 1999; 285:712-715.
	Brown, "A comparative study of fuels for on-board hydrogen production for fuel-cell-powered automobiles," <i>Int. J. Hydrogen Energy</i> , 2001, 26:381-397.
	Burch et al., "Investigation of the reactions of acetaldehyde on promoted rhodium catalysts," <i>Applied Catalysis A: General</i> , 1992; 88:61-76.
	Cavallaro et al., "Ethanol steam reforming in a molten carbonate fuel cell. A preliminary kinetic investigation," <i>Int. J. Hydrogen Energy</i> , 1996; 21(6):465-469.
	Cavallaro, "Ethanol Steam Reforming on Rh/A ₁ O ₃ Catalysts," <i>Energy & Fuels</i> , 2000, 14:1195-1199.
	Chornet et al., "Harnessing hydrogen," <i>Nature</i> , 29 Aug. 2002; 418:928-929.
	Cordi et al., "Transient oxidation of volatile organic compounds on a CuO/A ₁ O ₃ catalyst," <i>Applied Catalysis B: Environmental</i> , 1997; 14:23-36.
	Cortright et al., "Hydrogen from catalytic reforming of biomass-derived hydrocarbons in liquid water," <i>Nature</i> , 29 Aug. 2002; 418:964-967.
	Dietz III et al., "Partial Oxidation of C ₅ and C ₆ Alkanes over Monolith Catalysts at Short Contact Times," <i>Journal of Catalysis</i> , 1998; 176:459-473.

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INFORMATION DISCLOSURE STATEMENT <i>OCT 12 2003 USPTO - TRADEMARK OFFICE DC59</i>	Atty. Docket No.: 110.02090101	Serial No.: 10/620,183
	Applicants: SCHMIDT et al.	Confirmation No.: 8654
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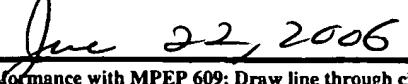
Examiner Initial	Document Description
<i>DB</i>	Fatsikostas et al., "Steam reforming of biomass-derived ethanol for the production of hydrogen for fuel cell applications," <i>Chem. Comm.</i> , 2001; 851-852.
<i>DB</i>	Fishtik et al., "A thermodynamic analysis of hydrogen production by steam reforming of ethanol via response reactions," <i>Int. J. Hydrogen Energy</i> , 2000; 25:31-45.
<i>DB</i>	Freni, "Rh based catalysts for indirect internal reforming ethanol applications in molten carbonate fuel cells," <i>Journal of Power Sources</i> , 2001; 94:14-19.
<i>DB</i>	Galvita et al., "Synthesis gas production by steam reforming of ethanol," <i>Applied Catalysis A: General</i> , 2001; 220:123-127.
<i>DB</i>	Goetsch et al., "Microsecond Catalytic Partial Oxidation of Alkanes," <i>Science</i> , 1996; 271:1560-1562.
<i>DB</i>	Gomez et al., "Kinetic Study of Partial Oxidation of Ethanol over VMgO Catalyst," <i>Ind. Eng. Chem. Res.</i> , 1997; 36:3468-3472.
<i>DB</i>	Henning et al., "Oxidative dehydrogenation of ethane at short contact times: species and temperature profiles within and after the catalyst." <i>Chem. Eng. Sci.</i> , 2002; 57(14):2615-2625.
<i>DB</i>	Hickman et al., "Synthesis gas formation by direct oxidation of methane over Pt monoliths," <i>Journal of Catalysis</i> , 1992; 138:267-82.
<i>DB</i>	Hickman et al., "Synthesis Gas Formation by Direct Oxidation of Methane over Rh Monoliths," <i>Catal. Lett.</i> , 1993; 17(3-4):223-237.
<i>DB</i>	Hickman et al., "Production of syngas by direct catalytic oxidation of methane," <i>Science</i> , 15 Jan. 1993; 259:343-346.
<i>DB</i>	Huff et al., "Partial Oxidation of CH ₄ , C ₂ H ₆ , and C ₃ H ₈ on Monoliths at Short Contact Times," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion II, Proceedings of the Third Natural Gas Conversion Symposium, Sydney, Australia, 4-9 July 1993; 81:315-320 (1994).
<i>DB</i>	Ioannides, "Thermodynamic analysis of ethanol processors for fuel cell applications," <i>Journal of Power Sources</i> , 2001, 92:17-25.

EXAMINER <i>In Sit Bullock</i>	Date Considered <i>June 22, 2006</i>
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Examiner Initial	Document Description
	Klein et al., "Catalytic partial oxidation of methane to syngas: staged and stratified reactors with steam addition," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion VI, Proceedings of the Sixth Natural Gas Conversion Symposium, Alaska, 17-22 June 2001; 136:245-250 (2001).
	Krummenacher et al., "Catalytic partial oxidation of higher hydrocarbons at millisecond contact times: decane, hexadecane, and diesel fuel," <i>Journal of Catalysis</i> , 2003;215:332-343.
	Lakshmi et al., "Synthesis, Characterization, and Activity Studies of Vanadia Supported on Zirconia and Phosphorus-Modified Zirconia," <i>Langmuir</i> , 1999; 15:3521-3528.
	Mariño et al., "Hydrogen from steam reforming of ethanol. Characterization and performance of copper-nickel supported catalysts," <i>Int. J. Hydrogen Energy</i> , 1998;23(12):1095-1101.
	Mariño et al., "Hydrogen production from steam reforming of bioethanol using Cu/Ni/K/ γ -Al ₂ O ₃ catalysts. Effect of Ni," <i>Int. J. Hydrogen Energy</i> , 2001, 26:665-668.
	Mazzocchia et al., "Hydrogenation of CO over ZrO ₂ -supported Rh catalysts: kinetic aspects," <i>Journal of Molecular Catalysis</i> , 1990; 60:283-294.
	Mazzocchia et al., "Hydrogenation of CO over Rh/SiO ₂ -CeO ₂ catalysts: kinetic evidences," <i>Journal of Molecular Catalysis A: Chemical</i> , 2001; 165:219-230.
	O'Connor et al., "High yields of synthesis gas by millisecond partial oxidation of higher hydrocarbons," <i>Catal. Lett.</i> , 2000; 70:99-107.
	Otsuka et al., "The Partial Oxidation of Light Alkanes (CH ₄ , C ₂ H ₆ , C ₃ H ₈) Over B-P Mixed Oxides," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion, Proceedings of the Natural Gas Conversion Symposium, Oslo, 12-17 Aug. 1990; 61:15-23 (1991).
	Pstryakov et al., "Physicochemical study of active sites of metal catalysts for alcohol partial oxidation," <i>Journal of Molecular Catalysis A: Chemical</i> , 2000; 158:325-329.
	Rampe et al., "Hydrogen generation from biogenic and fossil fuels by autothermal reforming," <i>Journal of Power Sources</i> , 2000; 86:536-541.

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INFORMATION DISCLOSURE STATEMENT <i>O I P E</i> DEC 12 2003	Atty. Docket No.: 110.02090101	Serial No.: 10/620,183
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Examiner Initial	Document Description
<i>JBS</i>	Tamman, "Zur Rekristallisation von Metallen und Salzen," <i>Anorg. Allg. Chem.</i> , 1923; 126:119-128.
<i>JBS</i>	Traxel et al., "Partial Oxidation of methanol at millisecond contact times," <i>Applied Catalysis A: General</i> , 2003; 244:129-140.
<i>JBS</i>	Vasudeva et al., "Steam reforming of ethanol for hydrogen production: thermodynamic analysis," <i>Int. J. Hydrogen Energy</i> , 1996; 21(1):13-18.
<i>JBS</i>	Vickers et al., "PLOT Column Considerations for the Gas Chromatographic Analysis of Ozone Precursors," <i>J&W Scientific</i> , Aug. 1998:9 pgs.
<i>JBS</i>	Wang et al., "Study on the partial oxidation of ethanol to hydrogen in the presence of Ni-Fe catalyst," <i>Wuji Huaxue Xuebao (Acta Physico-Chimica Sinica)</i> , 2002, 18(5):426-431; with English language abstract and translation, 12 pgs.

EXAMINER <i>Dr. Sue Bullock</i>	Date Considered <i>June 22, 2006</i>
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INFORMATION DISCLOSURE STATEMENT <i>JAN 16 2004</i> <i>SEARCHED & SERIALIZED</i>	Atty. Docket No.: 110.02090101	Serial No.: 10/620,183
	Applicant(s): SCHMIDT et al.	Confirmation No.: 8654
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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

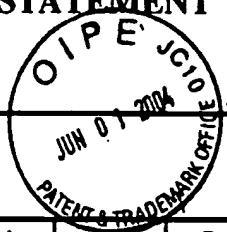
Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>JB</i>		EP 0922011 B1	07/25/01	EP				
<i>JB</i>		EP 1007472 B1	09/03/03	EP				
<i>JB</i>		EP 1118583 A2	07/25/01	EP				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
<i>JB</i>	Bodke et al., "Oxidative Dehydrogenation of Ethane at Millisecond Contact Times: Effect of H ₂ Addition," <i>J. Catalysis</i> , 2000; 191:62-74.
<i>JB</i>	Cohn et al., "Onboard plasmatron generation of hydrogen for extremely low emission vehicles with internal combustion engines," <i>Int. J. Vehicle Design</i> , 1996; 17(5/6):550-561.
<i>JB</i>	Hacohen et al., "Driving Cycle Simulation of a Vehicle Motored by a SI Engine Fueled with H ₂ -Enriched Gasoline," <i>Int. J. of Hydrogen Energy</i> , 1991; 16(10):695-702.
<i>JB</i>	Hickman et al., "Steps in CH ₄ Oxidation on Pt and Rh Surfaces: High-Temperature Reactor Simulations," <i>AICHE Journal</i> , 1993; 39(7):1164-1177.
<i>JB</i>	Jamal et al., "On-Board Generation of Hydrogen-Rich Gaseous Fuels - A Review," <i>Int. J. Hydrogen Energy</i> , 1994; 19(7):557-572.
<i>JB</i>	Krummenacher et al., "Catalytic Partial Oxidation of Higher Hydrocarbons at Millisecond Contact Times: Decane, Hexadecane, and Diesel Fuel," 18th North American Catalysis Society Meeting, Cancun, Mexico, June 1-6, 2003; 2 pgs.
<i>JB</i>	Su et al., "Heterogeneous Partial Oxidation of Light Alkanes," Abstracts of Papers, 224 th ACS National Meeting, Boston, MA, August 18-22, 2002; 3 pgs.

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<i>Janice Bullock</i>	<i>June 22, 2006</i>
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U.S. PATENT DOCUMENTS

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<i>DB</i>	5,980,782	11/09/99	Hershkowitz et al.			
<i>DB</i>	5,993,192	11/30/99	Schmidt et al.			
<i>DB</i>	6,092,921	07/25/00	Wentinck et al.			
<i>DB</i>	6,365,543 B1	04/02/02	Schmidt et al.			
<i>DB</i>	6,455,597 B2	09/24/02	Hohn et al.			
<i>DB</i>	6,548,447 B1	04/15/03	Yokoyama et al.			
<i>DB</i>	2001/0027258 A1	10/04/01	Hohn et al.			
<i>DB</i>	2002/0087042 A1	07/04/02	Schmidt et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>DB</i>	EP 0303429 A2	02/15/89	EP				
<i>DB</i>	EP 1043271 A1	10/11/00	EP				
<i>DB</i>	EP 1109876 B1	07/09/03	EP				
<i>DB</i>	WO 96/13475	05/09/96	PCT				
<i>DB</i>	WO 96/33149	10/24/96	PCT				
<i>DB</i>	WO 97/26987	07/31/97	PCT				
<i>DB</i>	WO 97/29062	08/14/97	PCT				
<i>DB</i>	WO 99/35082	07/15/99	PCT				
<i>DB</i>	WO 00/14180	03/16/00	PCT				
<i>DB</i>	WO 01/32556 A1	05/10/01	PCT				

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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial		Document Description
<i>JB</i>		Deluga et al., "Renewable Hydrogen from Ethanol by Autothermal Reforming," <i>Science</i> , 2004; 303:993-997.

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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<u>JB</u>		2003/0060364 A1	03/27/03	Anzai et al.			

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							Yes	No
		None						

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Examiner Initial		Document Description
		None

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